

Information about Greek speech

1. A comparison between Greek and English phonology

Aspect	Language	Number	Details	Source
Syllable-initial consonants	Greek	31 consonants	/p, (^m p), b, (^m b), t, d, (c), (tʃ), k, g, (^ŋ g), m, (ŋ), n, (ɲ), (ŋ), r, f, v, θ, ð, s, z, (ç), (j), x, γ, l, (Λ), ts, dz/	Mennen & Okalidou (2007)
	English	24 initial consonants	/p, b, t, d, k, g, m, n, ŋ, θ, ð, f, v, s, z, ʃ, ʒ, h, tʃ, ʒ, j, w, ɹ, l/	Smit (2004)
Consonant clusters	Greek	65 syllable-initial and no syllable-final consonant clusters		Mennen & Okalidou (2007)
	English	Approx. 29 syllable-initial and many syllable-final consonant clusters	Many 2 and 3 element consonant clusters in initial position including /pl, bl, kl, gl, fl, sl, pɹ, bɹ, tɹ, dɹ, kɹ, gɹ, θɹ, fɹ, ʃɹ, pj, tj, fj, mj, nj, sm, sn, sp, st, sk, spl, spɹ, stɹ, skw/ and many 2 to 4 element consonant clusters in final position	McLeod (2007) Smit (2004)
Vowels and diphthongs	Greek	5 vowels	Vowels: /i, ε, e, o, u/	Jongman, Fourakis, & Sereno (1989)
	English (US-General American)	14 vowels + 3 diphthongs	Vowels: /i, ɪ, e, ε, æ, ə, ɜ, ɝ, u, ʊ, o, ʌ, ɔ, ɑ/ Diphthongs: /aɪ, aʊ, ɔɪ/ (Smit also lists 5 'r'-colored diphthongs)	Smit (2007)
	English (Canadian)	14 vowels + 3 diphthongs	Vowels: /i, ɪ, e, ε, æ, ə, ɜ, ɝ, ʌ, u, o, ʌ, ɔ, ɑ/ Diphthongs: /ʌɪ, ʌʊ, ɔɪ/	Bernhardt, & Deby (2007)
	English (UK-Received Pronunciation)	12 vowels + 8 diphthongs	Vowels: /i, ɪ, e, ε, æ, a, ə, ɜ, u, ʊ, ʌ, ɔ, ɒ/ Diphthongs: /aɪ, aʊ, ɔɪ, eɪ, oʊ, ɪə, eə, uə/	Howard (2007)
	English (Australian)	12 vowels + 8 diphthongs	Vowels: /i:, ɪ, e, æ, ɛ:, ɐ, ɔ, o:, ʊ, ʉ:, ɜ:, ə/ ⁱ OR /i, ɪ, e, æ, a, ʌ, ɒ, ɔ, ʊ, u, ɜ, ə/ ⁱⁱ Diphthongs: /æɪ, aɛ, əɹ, æɔ, ɔɪ, ɪə, eɪ, uə/ ⁱ OR /eɪ, aɪ, oʊ, aʊ, ɔɪ, ɪə, eə, uə/ ⁱⁱ	ⁱ Harrington, Cox, & Evans, (1997) ⁱⁱ Mitchell (1946)
	English (New Zealand)	12 vowels + 8 diphthongs	Vowels: /i, ɪ, e, ε, æ, ə, ɜ, u, ʊ, ʌ, ɔ, ɒ, ɑ/ ⁱ OR /i, ɪ, e, æ, a, ə, ɜ, ʊ, ʌ, ɔ, ɒ/ ⁱⁱ Diphthongs: /aɪ, aʊ, ɔɪ, eɪ, oʊ, ɪə, eə, uə/ ⁱ OR /aɪ, aʊ, ɔɪ, eɪ, oʊ, ɪə, eə, uə/ ⁱⁱ	ⁱ Bauer & Warren (2004) ⁱⁱ Maclagan (2009)
Tones	Greek	0 tones	-	
	English	0 tones	-	

Syllable shape	Greek	$C_{(0-3)}VC_{(0-1)}$		Mennen & Okalidou (2007)
	English	$C_{(0-3)}VC_{(0-4)}$	The smallest syllable is V and the largest is CCCVCCCC <i>strengths</i> .	Smit (2004) McLeod (2007)
Stress-timed or syllable-timed?	Greek	Syllable-timed	Main stress falls on one of the last three syllables.	Mennen & Okalidou (2007)
	English	Stress-timed	Syllables can be strong or weak. Stress also is used for emphasis.	
Varieties	Greek		Northern and southern dialects, Cypriot-Greek dialect.	Mennen & Okalidou (2007)
	English	Many dialects	Many dialects including General American English, Received Pronunciation (England), Scottish English, Irish English, Australian English, New Zealand English, South African English etc.	
Writing system	Greek	Greek alphabet	Greek alphabet with close correspondence between sounds and letters.	Mennen & Okalidou (2007)
	English	Latin script	Latin script loosely related to phonetic realizations of the consonants and vowels.	

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Comparative summaries

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2. Greek speech assessments

For a list of speech assessments in Greek see: www.csu.edu.au/research/multilingual-speech/speech-assessments
Intelligibility in Context Scale: Greek www.csu.edu.au/research/multilingual-speech/ics

3. Monolingual speech acquisition (summaries and studies written in English)

Mennen, I., & Okalidou, A. (2007). Greek speech acquisition. In S. McLeod (Ed.), *The international guide to speech acquisition* (pp. 398-411). Clifton Park, NY: Thomson Delmar Learning.

4. Multilingual speech acquisition (summaries and studies written in English)

General summaries

Goldstein, B. A., & McLeod, S. (2012). Typical and atypical multilingual speech acquisition. In S. McLeod & B. A. Goldstein (Eds.), *Multilingual aspects of speech sound disorders in children* (pp. 84-100). Bristol, UK: Multilingual Matters.

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Summaries and studies of multilingual Greek speech acquisition

None known